



Attorney Docket No.: ~~NEL-00105~~

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Gary R. McLuen et al.

Serial No.: 09/742,460

Filed: December 19, 2000

For: **MULTI-WELL ROTARY  
SYNTHESIZER**

Group Art Unit: ~~1764~~ 1793

Examiner: J. Ward

**INFORMATION DISCLOSURE  
STATEMENT**

260 Sheridan Avenue, Suite 420  
Palo Alto, California 94306  
(650) 833-0160

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The citation listed below, copy attached, may be material to the examination of the above-identified application, and is therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make this citation of official record in this application.

Applicants have become aware of the following printed publication which may be material to the examination of this application:

- U.S. Patent 3,917,455
- U.S. Patent 4,415,732
- U.S. Patent 4,458,066
- U.S. Patent 4,816,513
- U.S. Patent 4,837,159
- U.S. Patent 5,047,524
- U.S. Patent 5,053,454
- U.S. Patent 5,093,268
- U.S. Patent 5,096,807
- U.S. Patent 5,112,736
- U.S. Patent 5,132,418
- U.S. Patent 5,239,484

- 1 -

CERTIFICATE OF MAILING (37 CFR § 1.8(a))  
I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington D.C. 20231

HAVERSTOCK & OWENS LLP

3/26/01

BY:

*[Signature]*

- U.S. Patent 5,262,530
- U.S. Patent 5,297,288
- U.S. Patent 5,324,483
- U.S. Patent 5,356,776
- U.S. Patent 5,380,495
- U.S. Patent 5,395,594
- U.S. Patent 5,427,930
- U.S. Patent 5,437,979
- U.S. Patent 5,453,247
- U.S. Patent 5,468,606
- U.S. Patent 5,472,672
- U.S. Patent 5,503,805
- U.S. Patent 5,510,270
- U.S. Patent 5,522,272
- U.S. Patent 5,529,756
- U.S. Patent 5,541,113
- U.S. Patent 5,545,531
- U.S. Patent 5,547,839
- U.S. Patent 5,563,033
- U.S. Patent 5,571,639
- U.S. Patent 5,593,839
- U.S. Patent 5,597,694
- U.S. Patent 5,605,662
- U.S. Patent 5,632,957
- U.S. Patent 5,633,365
- U.S. Patent 5,639,428
- U.S. Patent 5,645,114
- U.S. Patent 5,645,801
- U.S. Patent 5,653,939
- U.S. Patent 5,690,894
- U.S. Patent 5,707,797
- U.S. Patent 5,720,923
- U.S. Patent 5,720,928

Attorney Docket No.: ~~MEI-00102~~

RECEIVED  
PATENT  
6 2001  
TC 1700

- U.S. Patent 5,736,333
- U.S. Patent 5,744,305
- U.S. Patent 5,762,881
- PCT Publication No. WO 91/13084;
- PCT Publication No. WO 98/10857
- PCT Publication No. WO 98/36829
- PCT Publication No. WO 98/39099
- PCT Publication No. WO 98/57181
- German Publication No. DE 196 42 777 A1
- German Publication No. DE 297 19 919 U1
- German PCT Publication No. DE 39 08725 A01
- Great Britain PCT Publication GB 2 146 030 A
- L.E. Sindelar and J.M. Jaklevic, "High-Throughout DNA Synthesis in a Multichannel Format," Nucleic Acids Research, 1995, vol. 23, no. 6, pages 982-987, Oxford University Press.
- Robert L. Letsinger and V. Mahadevan, "Stepwise Synthesis of Oligodeoxyribonucleotides on an Insoluble Polymer Support," J Am Chem Soc, Vol. 88:22, pages 5319-5324, November 20, 1966
- VICI "Injectors and Switching Valves" Valco Instruments Co, Inc. Valco International, December 12, 1999, p. 1-2
- Valve Handbook by Philip L. Skousen, McGraw-Hill, 1997, pages 58-60.

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that anyone or more of these citations constitutes prior art.

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: March 26, 2001

By: Jonathan O. Owens  
Jonathan O. Owens  
Reg. No.: 37,902  
Attorneys for Applicants



Attorney Docket No.: PATENT  
NEP0105

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In re Application of:

Gary R. McLuen et al.

Serial No.: 09/742,460

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For: **MULTI-WELL ROTARY  
SYNTHESIZER**

Group Art Unit: 1764

Examiner:

**TRANSMITTAL LETTER**

260 Sheridan Avenue, Suite 420  
Palo Alto, CA 94306  
(650) 833-0160

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Enclosed please find an Information Disclosure Statement and Form PTO-1449, including a copy of the references contained thereon, for filing in the U.S. Patent and Trademark Office.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: March 26, 2001

By: Jonathan O. Owens

Jonathan O. Owens  
Reg. No.: 37,902

Attorneys for Applicants

CERTIFICATE OF MAILING (37 CFR § 1.8(a))

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HAVERSTOCK & OWENS LLP

3/26/01

Jonathan O. Owens

FORM PTO-1449 (Modified)  
 INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
 (Use Separate Sheets If Necessary)  
 (37 CFR § 1.98(b))

U.S. Department of Commerce  
 Patent and Trademark Office

Attorney Docket No.: NEI-00105  
 Applicant: Gary R. McLuen et al.  
 Filing Date: December 19, 2000

Serial No.: 09/742,460  
 Group/Art Unit: 1744  
 Filing Date: 05/10/74

U.S. PATENT DOCUMENTS

Examiner Initials	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	AA 3,917,455	11/4/75	Bak et al.	23	253.1	03/27/81
	AB 4,415,732	11/15/83	Caruthers et al.	536	27	03/24/81
	AC 4,458,066	07/03/84	Caruthers et al.	536	27	05/22/87
	AD 4,816,513	03/28/89	Bridgham et al.	525	54.11	09/17/85
	AE 4,837,159	6/6/89	Yamada	436	45	12/21/88
	AF 5,047,524	09/10/91	Andrus et al.	536	27	02/15/89
	AG 5,053,454	10/01/91	Judd	525	54.11	01/28/91
	AH 5,093,268	03/03/92	Leventis et al.	436	172	12/01/89
	AI 5,096,807	03/17/92	Leaback	435	6	06/14/89
	AJ 5,112,736	05/12/92	Caldwell et al.	435	6	06/18/84
	AK 5,132,418	07/21/92	Caruthers et al.	536	27	10/13/92
	AL 5,239,484	08/24/93	Hayashi et al.	364	500	07/27/90
	AM 5,262,530	11/16/93	Andrus et al.	536	25.31	06/10/92
	AN 5,297,288	03/22/94	Hemminger et al.	395	700	02/02/93
	AO 5,324,483	06/28/94	Cody et al.	422	131	09/09/92
	AP 5,356,776	10/18/94	Kambara et al.	435	6	08/27/93
	AQ 5,380,495	01/10/95	Chang et al.	422	131	08/24/92
	AR 5,395,594	03/07/95	Nokihara et al.	422	135	06/28/91
	AS 5,427,930	06/27/95	Birkenmeyer et al.	435	91.52	08/24/92
	AT 5,437,979	08/01/95	Rampal et al.	435	6	11/23/93
	AU 5,453,247	09/26/95	Beavis et al.	422	68.1	07/31/92
	AV 5,468,606	11/21/95	Bogart et al.	435	5	10/22/93
	AW 5,472,672	12/05/95	Brennan	422	131	11/02/93
	AX 5,503,805	04/02/96	Sugarman et al.	422	131	9/30/92
	AY 5,510,270	04/23/96	Fodor et al.	436	518	5/17/95
	AZ 5,522,272	06/04/96	Vecere et al.	73	864.62	7/13/95
	BA 5,529,756	06/25/96	Brennan	422	131	9/22/93
	BB 5,541,113	07/30/96	Siddigi et al.	436	56	6/07/95
	BC 5,545,531	08/13/96	Rava et al.	435	6	12/06/90
	BD 5,547,839	08/20/96	Dower et al.	435	6	02/26/93
	BE 5,563,033	10/08/96	Lawrence et al.	435	6	05/24/94
	BF 5,571,639	11/05/96	Hubbell et al.	430	5	06/02/95
	BG 5,593,839	01/14/97	Hubbell et al.	435	6	10/07/93
	BH 5,597,694	01/28/97	Munroe et al.	435	6	11/01/93
	BI 5,605,662	02/25/97	Heller et al.	422	68.1	

Examiner: \_\_\_\_\_ Date Considered: \_\_\_\_\_

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Attorney Docket No.: NEI-00105

Serial No.: 09/742,460

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)

Applicant: Gary R. McLuen et al.

Filing Date: December 19, 2000

Group Art Unit 1764

(37 CFR § 1.98(b))

## U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
	BJ	5,632,957	05/27/97	Heller et al.	422	68.1	09/09/94
	BK	5,633,365	05/27/97	Stokke et al.	536	24.31	04/28/95
	BL	5,639,428	06/17/97	Cottingham	422	112	07/19/94
	BM	5,645,114	07/08/97	Bogen et al.	141	145	05/31/94
	BN	5,645,801	07/08/97	Bouma et al.	422	68.1	08/18/95
	BO	5,653,939	08/05/97	Hollis et al.	422	50	08/07/95
	BP	5,690,894	11/25/97	Pinkel et al.	422	68.1	05/23/95
	BQ	5,707,797	01/13/98	Windle	435	6	06/23/94
	BR	5,720,923	02/24/98	Haff et al.	422	68.1	08/31/94
	BS	5,720,928	02/24/98	Schwartz	422	186	04/03/95
	BT	5,736,333	04/07/98	Livak et al.	435	6	06/04/96
	BU	5,744,305	04/28/98	Fodor et al.	435	6	06/06/95
	BV	5,762,881	6/9/98	Harness et al.	422	132	10/29/96

6/9/98	
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS	

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS								
		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
				PCT	C07K	1/04		X
	BW	WO 91/13084	9/5/91	PCT	B01J	19/00		X
	BX	WO 98/10857	3/19/98	PCT	B01J	19/00		X
	BY	WO 98/36829	8/27/98	PCT	B01J	3/00		X
	BZ	WO 98/39099	9/11/98	PCT	G01N	35/10		X
	CA	WO 98/57181	12/17/98	PCT	B01J	19/00		X
	CB	DE 196 42 777 A1	5/28/98	DE	B01J	19/00		X
	CC	DE 297 19 919 U1	5/12/99	DE	G01N	35/00		X
	CD	DE 39 08725 A01	9/20/90	DE	C07H	1/00		X
	CE	GB 2 146 030 A-	4/11/85	GB				

030 A-	4/11/85	
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)		
		Multi-channel Format "Nucleic A

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)	
CF	L.E. Sindelar and J.M. Jaklevic, "High-Throughput DNA Synthesis in a Multichannel Format," Nucleic Acids Research, 1995, vol. 23, no. 6, pages 982-987, Oxford University Press.
CG	Robert L. Letsinger and V. Mahadevan, "Stepwise Synthesis of Oligodeoxyribonucleotides on an Insoluble Polymer Support," JAM Chem Soc, Vol. 88:22, pages 5319-5324, November 20, 1966
CH	VICI "Injectors and Switching Valves" Valco Instruments Co, Inc. Valco International, December 12, 1999, p. 1-2
CI	Valve Handbook by Philip L. Skousen, McGraw-Hill, 1997, pages 58-60
	Date Considered:

**Examiner:**

**EXAMINER:**

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.